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EVENSON, MCKEOWN, EDWARDS & LENAHAN
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WASHINGTON, DC 20005

**NOTICE OF ALLOWANCE
AND ISSUE FEE DUE**

☐ Note attached communication from the Examiner

☐ This notice is issued in view of applicant's communication filed _____

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
07/985,199	12/03/92	007	PARK, C	2304 09/03/95
First Named Applicant	CHNISHI, HIROSHI			

TITLE OF INVENTION
AUTOMATIC AUTOMOBILE TRANSMISSION WITH VARIABLE SHIFT PATTERN
CONTROLLED IN RESPONSE TO ESTIMATED RUNNING LOAD
(AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2 081/41092	064-424.100	082	UTILITY	NO	\$1210.00	12/03/95

**THE APPLICATION IDENTIFIES ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY Status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the patent and Trademark Office of the change in status, or
- B. If the Status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, pay of 1/2 the FEE DUE shown above.

II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.

III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communication prior to issuance to Box ISSUE FEE unless advised to contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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07/985,199 12/03/92 OHNISHI

H 381/41092

PARK, C EXAMINER

B3M1/0905

EVENSON, MCKEOWN, EDWARDS & LENAHAH
1200 G STREET, N.W., SUITE 700
WASHINGTON, DC 20005

ART UNIT PAPER NUMBER

2304

20/10

09/05/95

DATE MAILED:

NOTICE OF ALLOWABILITY

PART I.

- ☒ This communication is responsive to APPLICANT'S COMMUNICATION FILED ON 8/16/95
- ☒ All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
- ☒ The allowed claims are 5-7, 13-14, AND 19-20, NOW RENUMBERED 1-7
- ☐ The drawings filed on _____ are acceptable.
- ☒ Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☒ been received. ☐ not been received. ☐ been filed in parent application Serial No. _____ filed on _____
- ☒ Note the attached Examiner's Amendment.
- ☒ Note the attached Examiner Interview Summary Record, PTOL-413.
- ☒ Note the attached Examiner's Statement of Reasons for Allowance.
- ☐ Note the attached NOTICE OF REFERENCES CITED, PTO-892.
- ☐ Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- ☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- ☒ APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
 - ☒ Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. 15. CORRECTION IS REQUIRED.
 - ☐ The proposed drawing correction filed on _____ has been approved by the examiner. CORRECTION IS REQUIRED.
 - ☐ Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
 - ☒ Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

Attachments:

- ☒ Examiner's Amendment
- ☒ Examiner Interview Summary Record, PTOL-413
- ☒ Reasons for Allowance
- ☐ Notice of References Cited, PTO-892
- ☐ Information Disclosure Citation, PTO-1449

- ☐ Notice of Informal Application, PTO-152
- ☐ Notice re Patent Drawings, PTO-948
- ☐ Listing of Bonded Draftsmen
- ☐ Other

Collin W. Park
COLLIN W. PARK
PATENT EXAMINER
GROUP 2300

ART UNIT 2304

1. An extension of time under 37 C.F.R. § 1.136(a) is required in order to make an Examiner's Amendment which places this application in condition for allowance. During a telephone conversation conducted on August 31, 1995, Mr. Gary Edwards (Reg. No. 31,824) requested an extension of time for one month and authorized the Commissioner to charge Deposit Account No. 05-1323 the required fee of \$110 for this extension and authorized the following Examiner's Amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

- In claim 5, line 8, replace "calculating" with --estimating--;

line 24, replace "calculates" with --estimates--;

line 29, replace "said" with --a-- and insert --of said automatic transmission-- after "converter"; and

line 31, replace "a" with --said--.

- In claim 6, line 9, replace "calculating" with --estimating--;

line 25, replace "receives" with --has stored therein--;

line 26, replace "an" with --said--, and replace "so as to learn" with --of the automobile for learning--;

line 27, replace "supplied" with --of at least said throttle valve opening and

said acceleration--; and

line 28, delete "beforehand".

- In claim 7, line 5, replace ", commencing" with --to said neural network--;

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line 6, replace "second" with --first--; and

line 7, replace "third" with --second--.

- In claim 13, line 9, replace "calculating" with --estimating--.

- In claim 14, line 8, replace "calculating" with --estimating--; and

line 31, delete "revolution", insert --between an input and an output

revolution speeds-- after "ratio", and replace "a" (second occurrence) with --said--.

- In claim 21, line 25, insert --of a torque converter of said automatic transmission--

before "is"; and

line 27, replace "a" with --said--.

- In claim 22, line 24, delete "the";

line 25, replace "characteristic" with --characteristics";

line 27, insert --said-- after "on", and replace "an" with --the--;

line 29, insert --of said torque converter of said automatic transmission--

before "is"; and

line 31, insert --said-- before "torque" (first occurrence), and replace "a"

with --said--.

2. The following is an Examiner's Statement of Reasons for Allowance:

2.1 Claims 5, 14, and 21-22 are allowable because the combination of the means/step for estimating the output torque by one of two alternative methods as respectively recited in the claims, depending on whether the ratio between the input and output speeds of the torque

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converter is greater than a predetermined value, with the other limitations of the respective claims. is deemed to have not been taught by the cited prior art.

2.2 Claims 6-7 are allowable because the combination of a neural network, which receives throttle opening and vehicle acceleration values to estimate weight of a vehicle for selecting a gear position of the automatic transmission, with the other limitations of the claims is deemed to have not been taught by the cited prior art.

2.3 Claim 13 is allowable because the combination of means for estimating the vehicle weight based on the throttle valve opening and vehicle speed in addition to the acceleration of the vehicle with the other limitations of the claim is deemed to have not been taught by the cited prior art.

2.4 Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Collin W. Park, whose telephone number is (703)305-9754. The examiner can normally be reached on Monday-Friday from 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska, can be reached on (703)305-9704. The fax phone number for this Group is (703)308-5358.

SERIAL NO. 7 - 985,199

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)305-9600.

August 31, 1995

Collin W. Park
COLLIN W. PARK
PATENT EXAMINER
GROUP 2300